Notice of Allowability	Application No.	Applicant(s)
	10/656,382	HASHIMOTO ET AL.
	Examiner	Art Unit
	Sunray Chang	2121
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. ☑ This communication is responsive to <u>June 19<sup>th</sup>, 2006</u> .		
2. The allowed claim(s) is/are <u>1-20.</u>		
<ul> <li>3.</li></ul>		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informa	al Patent Application
Notice of References Cited (FTO-032)     Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summa	ary (PTO-413),
Information Disclosure Statements (PTO/SB/08),	Paper No./Mail 7. ☐ Examiner's Ame	
Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit	<u>—</u>	ement of Reasons for Allowance
of Biological Material	9.	
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1. This office action is in responsive to the paper filed on June 19<sup>th</sup>, 2006.

- 2. The following is an examiner's statement of reasons for allowance:
  - The claimed invention is a control system including a controller for controlling a plant based on a controlled object model which is obtained by modeling the plant.
  - The claimed method include a limitation "a controlled object model being modeled using an input and an output of said plant which are sampled at intervals of a sampling period which is longer than a control period of said controller".
  - The combination of prior art of record does not expressly disclose or suggest the "controller of the control system" with the feature of "a controlled object model being modeled using an input and an output of said plant which are sampled at intervals of a sampling period which is longer than a control period of said controller".
  - Applicants file terminal disclaimer disclaiming both U.S. Patent No. 6,082,099
     and co-pending application No. 10/349,538 to over come double patenting
     rejection.
- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

4. Claims 1 - 20 are deemed allowable.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sunray Chang who may be reached Monday through Friday, between 8:00 a.m. and 5:00 p.m. EST. via telephone number (571) 272-3682 or facsimile transmission (571) 273-3682 or email <a href="mailto:sunray.chang@uspto.gov">sunray.chang@uspto.gov</a>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anthony Knight can be reached on (571) 272-3687.

The official facsimile transmission number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Anthony Knight

Supervisory Primary Examiner

Group Art Unit 2121

Technology Center 2100

U.S. Patent and Trademark Office

March 13, 2007